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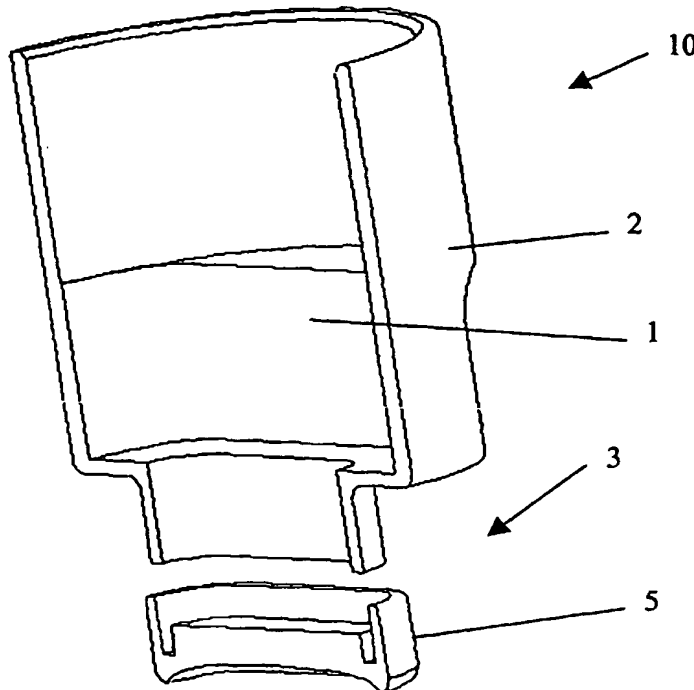
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(54) Title: ULTRASOUND INTERFACING DEVICE FOR TISSUE IMAGING

Cross-Sectional view of device with molded window component.



(57) Abstract: A device (10) used with high frequency ultrasound provides a replaceable barrier between the ultrasound transducer and the tissues being imaged. The device (10) provides an acoustic pathway of minimal effect on the ultrasound signals, and furthermore provides for a safety barrier between a mechanical scanner and the tissues being imaged. The configuration of the device (10) allows it to function as a standoff for the ultrasound transducer to place the focus of the ultrasound beam at the desired depth of tissue for imaging. In addition, the device (10) may be sterilized and replaced as needed, providing sterile tissue contact surfaces. The device (10) has additional features, which are especially advantageous for diagnosis and surgery of the eye.